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FILE 'REGISTRY' ENTERED AT 15:59:22 ON 24 JUL 2006

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(FILE 'HOME' ENTERED AT 14:26:04 ON 24 JUL 2006)

FILE 'HCAPLUS' ENTERED AT 14:26:17 ON 24 JUL 2006 E US20050261207/PN

L1 1 S E3 SEL RN

FILE 'REGISTRY' ENTERED AT 14:27:33 ON 24 JUL 2006

L2 32 S E1-32

L3 STR

L4 0 S L3

L5 STR L3 L6 5 S L5

L7 STR L5

L8 5 S L7

L9 138 S L7 FUL

SAV L9 ISS601/A 14 S L2 AND L9

FILE 'HCAPLUS' ENTERED AT 15:32:17 ON 24 JUL 2006

L11 908 S L9

L12 1 S L10

FILE 'REGISTRY' ENTERED AT 15:32:43 ON 24 JUL 2006

L13 STR L7

L14 1 S L13 SAM SUB=L9

L15 STR L13

L16 19 S L15 FUL SUB=L9

FILE 'HCAPLUS' ENTERED AT 15:57:58 ON 24 JUL 2006

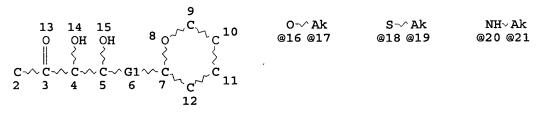
L17 7 S L16

FILE 'CAOLD' ENTERED AT 15:59:46 ON 24 JUL 2006

L18 0 S L16

=> d l16 que stat

L7 STR



VAR G1=0/16-5 17-7/S/18-5 19-7/NH/20-5 21-7/17-5 16-7/18-7 19-5/20-7 21-5 NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 17

GGCAT IS SAT AT 19 GGCAT IS SAT AT 21 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

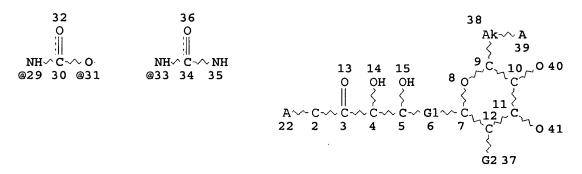
NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L9 138 SEA FILE=REGISTRY SSS FUL L7

L15 STR





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NODE ATTRIBUTES:

CONNECT IS E2 RC AT 17

CONNECT IS E2 RC AT 19

CONNECT IS E2 RC AT 21

CONNECT IS E2 RC AT 38

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 17

GGCAT IS SAT AT 19

GGCAT IS SAT AT 21

GGCAT IS SAT AT 38

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 40

STEREO ATTRIBUTES: NONE

L16 19 SEA FILE=REGISTRY SUB=L9 SSS FUL L15

100.0% PROCESSED 132 ITERATIONS

SEARCH TIME: 00.00.01

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 16:00:42 ON 24 JUL 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

MEI HUANG EIC1700 REM4B28 571-272-3952

19 ANSWERS

PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l17 ibib abs hitstr hitind 1-7

L17 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:333730 HCAPLUS

DOCUMENT NUMBER: 140:332537

Glucose-based compounds with affinity to TITLE:

P-selectin

INVENTOR(S): Appeldoorn, Chantal Catharina Maria; Biessen,

Erik Anna Leonardus; Molenaar, Thomas Jacobus Maria; Van Berkel, Theodorus Josephus Cornelis

Yamanouchi Europe B.V., Neth. PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 28 pp. CODEN: PIXXD2

Patent

DOCUMENT TYPE:

English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO	2004033473	A1	20040422	WO 2003-EP11457	200310
	CN, CO, GE, GH, LC, LK, NO, NZ, TM, TN, RW: GH, GM, BY, KG, EE, ES,	CR, CU, CZ GM, HR, HU LR, LS, LT OM, PH, PL TR, TT, TZ KE, LS, MW KZ, MD, RU FI, FR, GB	, DE, DK, , ID, IL, , LU, LV, , PT, RO, , UA, UG, , MZ, SD, , TJ, TM, , GR, HU,	BA, BB, BG, BR, BY, BZ DM, DZ, EC, EE, ES, FI IN, IS, JP, KE, KG, KI MA, MD, MG, MK, MN, MV RU, SC, SD, SE, SG, SH US, UZ, VC, VN, YU, ZZ SL, SZ, TZ, UG, ZM, ZV AT, BE, BG, CH, CY, CZ IE, IT, LU, MC, NL, PT CI, CM, GA, GN, GQ, GV	I, GB, GD, P, KR, KZ, N, MX, MZ, C, SL, TJ, A, ZM, ZW N, AM, AZ, Z, DE, DK, T, RO, SE,
CA	NE, SN,	TD, TG		CA 2003-2501842	200310
UA	2003278090	A1	20040504	AU 2003-278090	200310 13
EP	1549658	A1	20050706	EP 2003-769400	200310 13
				GB, GR, IT, LI, LU, NI MK, CY, AL, TR, BG, CZ	
BR	-	A	20050823	BR 2003-15231	200310 13
JP	2006503876	Т2	20060202	JP 2004-542495	200310 13
US	2005261207	A1	20051124	US 2005-530601	200504 07

PRIORITY APPLN. INFO.:

EP 2002-79232

200210

11

A

WO 2003-EP11457

200310

13

OTHER SOURCE(S): MARPAT 140:332537

AB The invention relates to certain glucose-based compds. with affinity to P-selectin to act as antagonists or partial antagonists of P-selectin. These compds. are useful as targeting ligands with an ability to target drugs and genetic material to cells and tissues expressing P-selectin. The synthesis of glucose-based compds. and their use for the prepn. of pharmaceutical compns. for the treatment of P-selectin-assocd. disorders, the conjugates, pharmaceutical carriers and drug delivery systems comprising these compds., and a method for detg. whether a compd. is capable of binding to P-selectin are also described.

IT 681121-09-5P 681121-11-9P 681121-12-0P 681121-13-1P 681121-25-5P 681121-26-6P 681121-27-7P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of glucose-based compds. with affinity to P-selectin)

RN 681121-09-5 HCAPLUS

CN D-threo-2-Pentulose, $5-0-\alpha$ -D-glucopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-11-9 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]-α-D-glucopyranosyl]-,

1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

RN 681121-12-0 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-(benzoylamino)-2-deoxy-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-13-1 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(2-naphthalenylcarbonyl)amino]- α -D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-25-5 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(1-oxooctyl)amino]- α -D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me (CH₂) 6
$$\stackrel{\text{H}}{\underset{\text{OH}}{\text{N}}}$$
 OPO₃H₂

RN 681121-26-6 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[2-deoxy-2-[(4-nitrobenzoyl)amino]-α-D-qlucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-27-7 HCAPLUS

CN D-threo-2-Pentulose, 5-0-[2-deoxy-2-[[4-

(trifluoromethyl)benzoyl]amino]-α-D-glucopyranosyl]-,

1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-20-0 HCAPLUS

CN D-threo-2-Pentulose, 5-O-[3,4,6-tri-O-acetyl-2-deoxy-2-[[(2,2,2-trichloroethoxy)carbonyl]amino]- α -D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-21-1 HCAPLUS

CN D-threo-2-Pentulose, 5-0-[3,4,6-tri-0-acetyl-2-(benzoylamino)-2-deoxy-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-22-2 HCAPLUS

CN D-threo-2-Pentulose, 5-0-[3,4,6-tri-0-acetyl-2-deoxy-2-[(4-nitrobenzoyl)amino]- α -D-glucopyranosyl]-, 1-(dihydrogen

phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-23-3 HCAPLUS

CN D-threo-2-Pentulose, 5-0-[3,4,6-tri-O-acetyl-2-deoxy-2-[[4-(trifluoromethyl)benzoyl]amino]-α-D-glucopyranosyl]-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 681121-24-4 HCAPLUS

CN D-threo-2-Pentulose, 5-0-[3,4,6-tri-0-acetyl-2-deoxy-2-[(2-naphthalenylcarbonyl)amino]-α-D-glucopyranosyl]-,
1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

IC ICM C07H015-04

ICS A61K031-70; A61P029-00

1-12 (Pharmacology) CC

Section cross-reference(s): 33, 63

IT 681121-09-5P 681121-11-9P 681121-12-0P 681121-13-1P 681121-25-5P 681121-26-6P

681121-27-7P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of glucose-based compds. with affinity to P-selectin)

TΤ 131474-49-2P 151557-75-4P 39698-55-0P 97562-23-7P 681121-10-8P 681121-14-2P 681121-15-3P 681121-16-4P

681121-17-5P 681121-18-6P 681121-19-7P 681121-20-0P 681121-21-1P 681121-22-2P

681121-23-3P 681121-24-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of glucose-based compds. with affinity to P-selectin) THERE ARE 4 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: THIS RECORD. ALL CITATIONS AVAILABLE IN

THE RE FORMAT

L17 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:521766 HCAPLUS

DOCUMENT NUMBER: 131:306669

TITLE: Selectin/Glycoconjugate Binding Assays for the

Identification and Optimization of Selectin

Antagonists

AUTHOR (S): Weitz-Schmidt, Gabriele; Gong, Ke Wei; Wong,

Chi-Huey

CORPORATE SOURCE: Transplantation Research, Novartis Pharma A.G.,

Basel, CH-4002, Switz.

SOURCE: Analytical Biochemistry (1999), 273(1), 81-88

CODEN: ANBCA2; ISSN: 0003-2697

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal LANGUAGE: English

ΔR In this study we describe ELISA-type P- and L-selectin binding assays for the anal. of selectin antagonists. A biotinylated polyacrylamide-type glycoconjugate contg. sialyl Lewis A

(sLea-polymer) is utilized as a synthetic ligand for both selectins

analogous to the E-selectin assay we have developed recently. Following precomplexation of sLea-polymer with streptavidinperoxidase, the complex is added to microtiter plates coated with the recombinant selectins. Binding of sLea-polymer to the immobilized selectins is measured by the peroxidase reaction. SLea-polymer was found to bind to P- and L-selectin in a cation-dependent manner. The interaction of the polymer was blocked by neutralizing anti-P- and anti-L-selectin antibody, resp. The ref. compds. heparin and fucoidan inhibited binding in both assays. Sialyl Lewis X (sLex) blocked binding to L-selectin by 46% at 3 mM, whereas no inhibition was obsd. in the P-selectin assay up to 3 mM. Control polymers contg. sialic acid or β -d-glucose instead of sLea weakly bound or failed to bind to the selectins. Both assays are rapid to perform and of low variability. The P-selectin assay was successfully employed to identify and optimize novel carbohydrate-based P-selectin antagonists. The P-, L-, and E-selectin assays were used to det. the fine selectivity of several sLex-related selectin antagonists. These studies together suggest that sLea-polymer-based selectin assays are well suited for primary screening and the characterization of selectin antagonists. 1999 Academic Press.

IT 194980-01-3, FM 233

RL: ANT (Analyte); ANST (Analytical study)
 (selectin/glycoconjugate binding assays for identification and
 optimization of selectin antagonists)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 1-1 (Pharmacology)

Section cross-reference(s): 15

IT 194980-01-3, FM 233

RL: ANT (Analyte); ANST (Analytical study)

(selectin/glycoconjugate binding assays for identification and

optimization of selectin antagonists)
REFERENCE COUNT: 22 THERE ARE 22 C

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L17 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:235765 HCAPLUS

DOCUMENT NUMBER: 130:296935

TITLE: Synthesis of sialyl Lewis x mimetics as selectin

inhibitors by enzymic aldol condensation

reactions

AUTHOR(S): Lin, Chun-Cheng; Moris-Varas, Francisco; Weitz-Schmidt, Gabriel; Wong, Chi-Huey

CORPORATE SOURCE: Department of Chemistry and Skaggs Institute of

Chemical Biology, The Scripps Research

Institute, La Jolla, CA, 92037, USA

SOURCE: Bioorganic & Medicinal Chemistry (1999), 7(3),

425-433

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Sialic acids were prepd. as antiinflammatory agents and E-, L-, and P-selectin inhibitors. Several D-mannosyl phosphate/phosphonate derivs. have been enzymically prepd. as sialyl Lewis x tetrasaccharide mimics, which showed strong-to-moderate inhibition against E-, P-, and L-selectins. The synthesis of these mimics is very straightforward; mannosyl aldehyde derivs. are condensed with dihydroxyacetone phosphate (DHAP) in the presence of a DHAP-dependent aldolase to provide mannosyl phosphates.

IT 194980-01-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 223121-83-3P 223121-90-2P 223121-97-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

RN 223121-83-3 HCAPLUS

CN L-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

RN 223121-90-2 HCAPLUS

CN D-erythro-2-Pentulose, 5-O- α -D-mannopyranosyl-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 223121-97-9 HCAPLUS

CN D-threo-2-Pentulose, 5-O-(6-azido-6-deoxy-α-D-mannopyranosyl), 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 33-8 (Carbohydrates)

Section cross-reference(s): 1, 15

IT 194980-01-3 194980-02-4

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

IT 223121-83-3P 223121-90-2P 223121-97-9P

223122-03-0P 223122-14-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(synthesis of sialyl Lewis x mimetics as selectin inhibitors by enzymic aldol condensation reactions)

REFERENCE COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

44

ACCESSION NUMBER:

1998:293511 HCAPLUS

DOCUMENT NUMBER:

129:4814

TITLE:

Preparation of sialyl Lewis X mimetics as

E-selectrin inhibitors

INVENTOR(S):

Wong, Chi-huey; Moris-Varas, Francisco; Lin, Chun-cheng; Marron, Thomas G.; Woltering, Thomas; Weitz-Shmidt, Gabriele; Jablonowski,

Jill

PATENT ASSIGNEE(S):

Novartis A.-G., Switz.; Scripps Research

Institute

Patent

SOURCE:

PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PA7	TENT I	NO.			KIND DATE			i	APPL	DATE						
	 WO	9818	A2		19980507		1	WO 1		99710 7							
	WO	9818805				A3 20030417						_,					
·			AL, DE, KP, MX,	AM, DK, KR, NO,	AT, EE, KZ, NZ,	AU, ES, LC, PL,	AZ, FI, LK, PT,	BA, GB, LR, RO,	BB, GE, LS, RU,	GH, LT, SD,	HU, LU,	ID, LV,	IL, MD,	IS, MG,	JP, MK,	KE, MN,	CZ, KG, MW, TM,
		RW:	GH, TJ, MC,	KE, TM,	LS, AT, PT,	MW, BE,	SD, CH,	DE,	UG, DK,	ZW, ES,	FI,	FR,	GB,	GR,	IE,	IT,	RU, LU, NE,
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US 1996-764315 Α 199612 12 US 1997-896452 Α 199707 18 WO 1997-EP5909 199710 27

OTHER SOURCE(S):

MARPAT 129:4814

GT

HO HO OH OH OH OH
$$_{\rm YR1}$$
 CONHCH2CO2H

AB Sialyl Lewis X mimetics which mimic the inhibition of selectin-mediated cellular adhesion by sialyl Lewis X having a core of formula {(I); R = Me, OH, carboxylate-contg. sugar residue; Y = alkene; R1 = OH, NH2, amide, amino acid] were prepd. Thus, compds. such as II were prepd. and tested for ability to block the adhesion of HL-60 cells to immobilized sol-E-selectin. Compds. of formula I showed inhibition at 3mM of 70-80%, or IC50 values from 0.1-0.2mM. IT 194980-01-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of sialyl Lewis X mimetics as E-selectrin inhibitors)

RN 194980-01-3 HCAPLUS

D-threo-2-Pentulose, $5\text{-O}-\alpha\text{-D-mannopyranosyl-}$, 1-(dihydrogen CN phosphate) (9CI) (CA INDEX NAME)

IC ICM C07H015-00

CC 33-8 (Carbohydrates)

Section cross-reference(s): 34, 63

IT 186532-53-6P 186532-55-8P 186532-57-0P 186532-59-2P 186532-61-6P 194980-01-3P 194980-09-1P 194980-12-6P 194980-14-8P 204458-84-4P 204458-85-5P 204458-87-7P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of sialyl Lewis X mimetics as E-selectrin inhibitors)

L17 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:163599 HCAPLUS

DOCUMENT NUMBER:

128:230633

TITLE:

Preparation of sialyl Lewis x mimetics as

E-selectin inhibitors

INVENTOR(S):

Wong, Chi-Huey; Lin, Chun-Cheng; Woltering, Thomas J.; Marron, Thomas G.; Moris-Varas, Francisco; Jablonowski, Jill; Weitz-Schmidt,

Gabriele

PATENT ASSIGNEE(S):

Novartis A.-G., Switz.; Scripps Research Institute; Wong, Chi-Huey; Lin, Chun-Cheng; Woltering, Thomas J.; Marron, Thomas G.; Moris-Varas, Francisco; Jablonowski, Jill;

Weitz-Schmidt, Gabriele PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND					D :	DATE		j	APPL	DATE						
WO 9808854 A							1998	0305	1	WO 1	199708					
WO 9	808 W:	AL, DE, KR, NO,	AM, DK, KZ, NZ,	AT, EE, LC, PL,	ES, LK, PT,	AZ, FI, LR, RO,	GB, LS, RU,	0820 BB, GE, LT, SD, YU,	GH, LU, SE,	HU, LV, SG,	IL, MD, SI,	IS, MG, SK,	JP, MK, SL,	KE, MN, TJ,	KG, MW, TM,	CZ, KP, MX, TR,

		ТJ,	TM													
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		CM,	GΑ,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG						
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OTHER SOURCE(S):

MARPAT 128:230633

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II

AB Sialyl Lewis X mimetics which mimic the inhibition of selectin-mediated cellular adhesion by sialyl Lewis X having a core of formula I (R1 = Me, OH, carboxylate-contg. sugar residue; Y = alkylene; R2 = hydroxy, amine, amide, amino acid) were prepd. Thus, II was prepd. and tested for ability to block the adhesion of HL-60 cells to immobilized sol-E-selectin (IC50 = 0.1-0.2 mM).

IT 194980-01-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of sialyl Lewis x mimetics as E-selectin inhibitors)

RN 194980-01-3 HCAPLUS

 YR^2

CN D-threo-2-Pentulose, 5-O-α-D-mannopyranosyl-, 1-(dihydrogen

phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IC ICM C07H015-00

CC 33-8 (Carbohydrates)

Section cross-reference(s): 15, 34

IT 185753-18-8P 186532-53-6P 186532-55-8P 186532-57-0P 186532-59-2P 186532-61-6P 186585-85-3P 194980-01-3P 194980-02-4P 194980-09-1P 194980-12-6P 204458-75-3P 204458-76-4P 204458-78-6P 204458-80-0P 204458-84-4P 204458-85-5P 204458-87-7P 204458-89-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of sialyl Lewis x mimetics as E-selectin inhibitors)

L17 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1997:667131 HCAPLUS

DOCUMENT NUMBER:

127:229196

TITLE: Small Molecules as Structural and Functional Mimics of Sialyl Lewis X in Selectin Inhibition:

A Remarkable Enhancement of Inhibition by Additional Negative Charge and/or Hydrophobic

Group

AUTHOR (S): Wong, Chi-Huey; Moris-Varas, Francisco; Hung,

Shang-Cheng; Marron, Thomas G.; Lin, Chun-Cheng;

Gong, Ke Wei; Weitz-Schmidt, Gabriele

Department of Chemistry, Scripps Research CORPORATE SOURCE:

Institute, La Jolla, CA, 92037, USA

SOURCE: Journal of the American Chemical Society (1997),

119(35), 8152-8158

CODEN: JACSAT: ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:229196

Several sialyl Lewis X (SLex) mimics that contain the essential functional groups for receptor interaction and a neg. charge or a hydrophobic group have been developed as inhibitors of E-, P-, and L-selectins. Some of the mimics exhibit selectin inhibition activities 103-104-fold more potent than does the natural ligand tetrasaccharide, with IC50 in the low micromolar to high nanomolar range. The syntheses of these mimics are relatively simple, using TMSOTf-Ac20 mediated C-glycosylation with concurrent selective deprotection of the primary benzyl group and enzymic aldol addn.

reactions as key steps.

IT 194980-01-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(small mols. as structural and functional mimics of sialyl Lewis x in selectin inhibition in relation to addnl. neg. charge and/or hydrophobic Group)

RN 194980-01-3 HCAPLUS

CN D-threo-2-Pentulose, $5-O-\alpha-D-mannopyranosyl-$, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CC 1-3 (Pharmacology)

Section cross-reference(s): 33

IT 186532-57-0P **194980-01-3P** 194980-02-4P 194980-09-1P

194980-12-6P 194980-14-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(small mols. as structural and functional mimics of sialyl Lewis x in selectin inhibition in relation to addnl. neg. charge and/or hydrophobic Group)

REFERENCE COUNT:

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

32

ACCESSION NUMBER: 1989:570752 HCAPLUS

DOCUMENT NUMBER: 111:170752

TITLE: Prokaryotic triterpenoids. A novel hopanoid

from the ethanol-producing bacterium Zymomonas

mobilis

AUTHOR(S): Flesch, Gerard; Rohmer, Michel

CORPORATE SOURCE: Ec. Natl. Super. Chim. Mulhouse, Mulhouse,

68093, Fr.

SOURCE: Biochemical Journal (1989), 262(2), 673-5

CODEN: BIJOAK; ISSN: 0306-3275

DOCUMENT TYPE: Journal LANGUAGE: English

GI

I

Among the triterpenoids of Z. mobilis, a novel hopanoid (I), AΒ 32-oxabacteriohopane-33,34,35-triol β -linked via its primary hydroxy group to glucosamine, was isolated as a minor compd.

123167-01-1 ΙT

> RL: BIOL (Biological study) (from Zymomonas mobilis)

RN

123167-01-1 HCAPLUS 4-Octanone, 1-[(2-amino-2-deoxy- β -D-glucopyranosyl)oxy]-2,3-dihydroxy-7-[(21 α)-A'-neo-22,29,30-trinorgammaceran-21-yl]-, [2S-(2R*,3R*,7S*)]- (9CI) (CA INDEX NAME) CN

PAGE 1-A

PAGE 1-B

CC 10-1 (Microbial Biochemistry) Section cross-reference(s): 30 IT 123167-01-1
RL: BIOL (Biological study)
(from Zymomonas mobilis)

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